

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/030,832

INPUT SET: S2A125.raw

DATE: 03/12/98
TIME: 17:33:54

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Hanna, Michael C.
Kirkness, Ewen F.

(ii) TITLE OF INVENTION: GABAA Receptor Epsilon

(iii) NUMBER OF SEQUENCES: 46

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
(B) STREET: 1100 New York Avenue, NW, Suite 600
(C) CITY: Washington
(D) STATE: DC
(E) COUNTRY: USA
(F) ZIP: 20005-3934

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: To be assigned
(B) FILING DATE: Herewith
(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/888,012
(B) FILING DATE: 03-JUL-1997
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Steffe, Eric K.
(B) REGISTRATION NUMBER: 36,688
(C) REFERENCE/DOCKET NUMBER: 1488.0950001/EKS/SGW

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (202) 371-2600
(B) TELEFAX: (202) 371-2540

(2) INFORMATION FOR SEQ ID NO:1:

ENTERED



RAW SEQUENCE LISTING
PATENT APPLICATION US/09/030,832DATE: 03/12/98
TIME: 17:33:56

INPUT SET: S24125.raw

47
48 (i) SEQUENCE CHARACTERISTICS:
49 (A) LENGTH: 6146 base pairs
50 (B) TYPE: nucleic acid
51 (C) STRANDEDNESS: double
52 (D) TOPOLOGY: linear
53
54 (ii) MOLECULE TYPE: DNA (genomic)
55
56
57 (ix) FEATURE:
58 (A) NAME/KEY: CDS
59 (B) LOCATION: 3872..4597
60
61
62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
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64 GTCTTATAAT TGCTAAGCAC TTACAAC TGT TGCAGAGGA AACTGAGACT TTGTAAC TAT 60
65
66 GTCTCAGTCT CATCTGCAAA GAAGTAAGTG CTTTGCCAAG CTCCTTGAGA GGT TAGGTAA 120
67
68 GTAGATAAAG TTCTGCTGCT GTCGGAATGT GCAGCTGGCT TTTTCATGCA GACCC TTCAG 180
69
70 TTTCGAGGTT ACAACTCTGA CCTCTTTGGA TGACTTTGGG GAATGGAGCT CGTGTGAGTT 240
71
72 CTCCATACCC AGAACCAATC CAGTCTGGTT GAATGGGAAG CAAAGTCCAT TGTAGTGGGA 300
73
74 GGTGGAGGCT AGAGTTCTAA TGTCAGCTAG TTTAAGGCTG GGAAAGTCTG GAGGAAGTTA 360
75
76 CAGCAGCTAC ACTGGCTGCT GCATTGACAT TTATCTTAAA GGAACAAGTC TGAAAAGCAC 420
77
78 AGATTCTTAT CAAAGGCTTC ATGGTGGATT CCACATAGAC ATAGTGGCCA CTGGTTTTC T 480
79
80 GACCTTTTCT CTGACAAAGA CTAAAGGGGA AGGTCCTGGG TATCTTACAC TTCAGCTCCC 540
81
82 AATTAGATGT GAGCACCTTC ACTTATGTTT CTAGGTGACC TGAATGAGGA GCCAAGGGAC 600
83
84 CTCCCCAGGG TAGCTCCCAG AGCAACCCTG GAAACACTCT TCACACATCC TGACCAAGTT 660
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86 CAGGGCAGTG AAGGCACTGC CCTCATCGTT TCCAGAATGT GGATGGAGCC AGTCACCCAA 720
87
88 CCAGCCATTT GTCGTGAGAG GCATCTTGTT CTGCTACCAT GTGACTAGGC AGAAAATCTG 780
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90 CTTTGTGTTT ATTTATTGAG TCAGTCTCTG GATGAGGGAA AGCTCATGCT CATGTGGCTA 840
91
92 GAGCTTTGCT TGCACAGTAT TAGGCAGGGG CAGAGGGCTG GGCTACCTTA AAAATACTTG 900
93
94 CCCTTTTCT TGGGGACTCT GGGGAAGCGG TTTTACTACC TTTGACTTGG GAGCCTTGCT 960
95
96 CTTCTGCCAG CTAACCATGG GCCTGCCTCT TGGTTTCTG CACCTCAGCT TTTCCCGGAT 1020
97
98 AGGTGGGGAC CCATCATCAA AAGTGACAGA GAAGATAAGG CCCAGGGGCT TTCAAGTCAC 1080
99

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PATENT APPLICATION US/09/030,832DATE: 03/12/98
TIME: 17:33:57

INPUT SET: S24125.raw

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104	GGGAGTGAGG	AGGATTCTTG	AGGAGAAAAG	AGGTCTTCTT	TCTCCTCTGC	TGGAGACTAG	1260
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106	TTGATCTGGA	GACGTGGTTC	CTTCAATGTC	AGAGTTATCT	TTGGGACTGG	TCTCAAACCTC	1320
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108	TTCCAGTTGG	GCCCTGGGGC	AGGTCTCTCC	ATCTGGAGCA	TACTTACGTG	CTCGGCGATT	1380
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112	ATCTCTGCTT	CAGGAGCTTC	TAAGAGAGTC	CAGCCCTGCC	TCCAGAGAGA	GGCTTGCCCT	1500
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116	ACAAGGAGGT	TTCCCTTCTT	TCTAGACAGT	TCTGTTTCATC	AAAAAACTCT	CCCTGTTCTT	1620
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118	CTGAAATTGG	AGTCTCTGGA	AGTTCCACAC	ATTAAGCTTA	GTTCTTTTTC	CTTGGAACCTG	1680
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120	TCCAGGTAC	ATTAGTCCAG	CCACTGTTTC	ACAGGACCGA	GATTAAACGA	TCAACATCAT	1740
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122	CATTCCCGGC	ATGGATCATA	GTCTGTTGTA	GTCTACATAG	CCCTAGTTTA	TTTTTCTTCC	1800
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124	CTTATTCTTC	AAAGCTTTGG	GTCCATTTCAT	TCTTCTAGTC	CCAGTCCTCT	GGACATGGTC	1860
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126	TATTTAATTG	TGTCCCTCTG	ACACTGCAGT	GACCAACCAT	GATCTGGTCA	AAGAGGATAA	1920
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128	GAGTTTGAGC	AGAAAACCAT	CTTTAGCATA	TATTTTTTTG	CTTTGGTTCA	TCAGCCCCAG	1980
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130	ATATATTGTT	TTCCCTTACCC	GTGCTTCTCT	CACTCCTCAA	GAAGAAGAAA	GTGTGTGTTA	2040
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132	GCATCTTTCT	CTTGTCCTTC	AAGACAAATT	GGCATCTCTT	GACGAGCGGA	GAAGGTCTT	2100
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134	TTTTGGCCAG	AATAAATAAA	ATTAAAATAG	AATCATCCAA	CAGAATAATA	AATCTTCGTG	2160
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136	CAACAAGAAT	ATATTATATA	AACCCAGCAA	TTTTGCAGGG	CCTGGGTATA	ACTAATTAGA	2220
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138	AGTGTCTTAA	ATTGCAGTCA	AGATCCCACG	GCAAGAGGAC	TTTTGATAAA	TACATTCTGG	2280
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140	CCAGTAGGCA	AGTGCGAGGG	TGGTCCGTGC	AGCAGCTCTG	GAGGAGTTCT	ATCCCAAAGC	2340
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142	TATACTCAAC	ACACAGGTTT	CCCCTGACA	ACAGGTCGCT	CCCTTGCCTT	CTTCCAGAAG	2400
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144	AATCTGAGAA	GCTTTGCTCC	TTGAGTTTCA	GTGCTGCCAA	GGTGAGTACG	AAAGGCTGCT	2460
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146	CTTCTCATTC	AGCTCCAGCC	CACCCAGACC	TGCTGGGCAG	TTGATCCACT	TTCCAAAATA	2520
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148	GGAGGACACA	CGGACAGGTT	AGTGTCTTGG	TCTGCTTTAC	AAAGCTGTTG	CCTGACAGGA	2580
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150	GCAAGAGTTG	CTGAGTGTCT	GCTGGGTTCC	AGGCTGTTCT	GAGCTTGGAT	GGGCAGGGGC	2640
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152	TAAGCCACAG	GGCCTGCATG	AGCCCTGCCT	TGAAGGGACT	TAAAAGACGA	CCTAATTATA	2700

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154	GGCCTAGGAA	TTTTACAGTA	TTGCAACTGC	AATGTGATGC	TGAAAGTGGA	AAATGATGTC	2760										
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156	CTGGGCTCAG	AGAAAAGCCC	ACACCAGCCT	GGGAGTCATG	ATAGCAGCAG	AGTGCTTGGG	2820										
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158	GAGGGTGTGT	CAGAGCATAA	AGCAGCATGA	ATGCTACAAA	AGAAGATGCC	AACTAGAGAT	2880										
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160	ATAGGTTGTC	ATCAGGTCCC	GGAGGAGCCA	TGACCGTCTA	GCTGAGAGCC	ATGACCAAGG	2940										
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162	ACACAATGTC	CAAGTGACTG	TGAGGACCTC	AGTCTGCCCT	GTGGATGTGT	ATGCCACAGA	3000										
163																	
164	CCTGACTTCT	GGAGGGCTGA	CTGAAATGTT	CATTTTAAGC	TTTTTCTTCT	CTTCCCTGA	3060										
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166	AACACTCAGT	TTGGGTTAGG	GGTCATAGAC	TAAGACCAAA	GAGTCCAGGG	TTAGAATCTT	3120										
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168	GGTGTA AAAAT	TGCAGGCCAT	CTCAGGAAAT	CTGTGAGCAG	ATGGGATTGG	CTTTGGGTAA	3180										
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170	GGTGCGTGTG	GAAAATGTCA	GTGGGAGCCG	GGTCATGGTG	GGCCTTTAGC	ATCAGATTCC	3240										
171																	
172	AGAGTGCAGA	TAGTCTGTAT	AGCTCATGTG	AAACAGGGAG	CCACCAAAAC	TTTGGGGAGC	3300										
173																	
174	AGGCTAGTGC	CGGTTTTGAC	CACCTGTGGA	GCAGTGCTCA	CTCACGAAGG	CATTTTGCCA	3360										
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176	TCACATGAAT	GTGCAGAAAG	GAGGCCAAAA	GCATTCTGTG	CTTCTCCACC	ACAGCACAGA	3420										
177																	
178	CTTCCCTAGT	CTCATTTGCT	GAGAGTAGAC	ATTCTGAGGG	CCAGCAGTGC	AGGTGTGATG	3480										
179																	
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181																	
182	ATCTAGAAGG	CTAATTGATT	TTTTCACTTT	CACCTGACTC	TCTTGCCAAC	CTGCAGAGAC	3600										
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184	AGACATTGGG	TGTAGGACAG	TGAACTGAGA	AGGAAGCTAT	TAAGATTCTG	GCCTTGGCTT	3660										
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186	AGCTCTCAAC	TGGCCATTGG	TCTTGCACTA	AGTCTTTTTT	CTGGGCTTCT	TCTGGTCCTA	3720										
187																	
188	TTTGTATGTA	TTGCATTGTC	ACATCATGCC	TCTATCCTAG	GGAATACTGT	GAGCTGAAAA	3780										
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191																	
192	GTGATGTTTT	TTGTGTCTTT	CAGGTGACTT	C	ATG	GTC	ATG	ACG	ATT	TTC	TTC	3892					
193																	
194																	
195																	
196	AAT	GTG	AGC	AGG	CGG	TTT	GGC	TAT	GTT	GCC	TTT	CAA	AAC	TAT	GTC	CCT	3940
197	Asn	Val	Ser	Arg	Arg	Phe	Gly	Tyr	Val	Ala	Phe	Gln	Asn	Tyr	Val	Pro	
198																	
199																	
200	TCT	TCC	GTG	ACC	ACG	ATG	CTC	TCC	TGG	GTT	TCC	TTT	TGG	ATC	AAG	ACA	3988
201	Ser	Ser	Val	Thr	Thr	Met	Leu	Ser	Trp	Val	Ser	Phe	Trp	Ile	Lys	Thr	
202																	
203																	
204	GAG	TCT	GCT	CCA	GCC	CGG	ACC	TCT	CTA	GGG	ATC	ACC	TCT	GTT	CTG	ACC	4036
205	Glu	Ser	Ala	Pro	Ala	Arg	Thr	Ser	Leu	Gly	Ile	Thr	Ser	Val	Leu	Thr	

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206					
207					
208	ATG ACC ACG TTG GGC ACC TTT TCT CGT AAG AAT TTC CCG CGT GTC TCC				4084
209	Met Thr Thr Leu Gly Thr Phe Ser Arg Lys Asn Phe Pro Arg Val Ser				
210		60	65	70	
211					
212	TAT ATC ACA GCC TTG GAT TTC TAT ATC GCC ATC TGC TTC GTC TTC TGC				4132
213	Tyr Ile Thr Ala Leu Asp Phe Tyr Ile Ala Ile Cys Phe Val Phe Cys				
214		75	80	85	
215					
216	TTC TGC GCT CTG TTG GAG TTT GCT GTG CTC AAC TTC CTG ATC TAC AAC				4180
217	Phe Cys Ala Leu Leu Glu Phe Ala Val Leu Asn Phe Leu Ile Tyr Asn				
218		90	95	100	
219					
220	CAG ACA AAA GCC CAT GCT TCT CCT AAA CTC CGC CAT CCT CGT ATC AAT				4228
221	Gln Thr Lys Ala His Ala Ser Pro Lys Leu Arg His Pro Arg Ile Asn				
222		105	110	115	
223					
224	AGC CGT GCC CAT GCC CGT ACC CGT GCA CGT TCC CGA GCC TGT GCC CGC				4276
225	Ser Arg Ala His Ala Arg Thr Arg Ala Arg Ser Arg Ala Cys Ala Arg				
226		120	125	130	135
227					
228	CAA CAT CAG GAA GCT TTT GTG TGC CAG ATT GTC ACC ACT GAG GGA AGT				4324
229	Gln His Gln Glu Ala Phe Val Cys Gln Ile Val Thr Thr Glu Gly Ser				
230		140	145	150	
231					
232	GAT GGA GAG GAG CGC CCG TCT TGC TCA GCC CAG CAG CCC CCT AGC CCA				4372
233	Asp Gly Glu Glu Arg Pro Ser Cys Ser Ala Gln Gln Pro Pro Ser Pro				
234		155	160	165	
235					
236	GGT AGC CCT GAG GGT CCC CGC AGC CTC TGC TCC AAG CTG GCC TGC TGT				4420
237	Gly Ser Pro Glu Gly Pro Arg Ser Leu Cys Ser Lys Leu Ala Cys Cys				
238		170	175	180	
239					
240	GAG TGG TGC AAG CGT TTT AAG AAG TAC TTC TGC ATG GTC CCC GAT TGT				4468
241	Glu Trp Cys Lys Arg Phe Lys Lys Tyr Phe Cys Met Val Pro Asp Cys				
242		185	190	195	
243					
244	GAG GGC AGT ACC TGG CAG CAG GGC CGC CTC TGC ATC CAT GTC TAC CGC				4516
245	Glu Gly Ser Thr Trp Gln Gln Gly Arg Leu Cys Ile His Val Tyr Arg				
246		200	205	210	215
247					
248	CTG GAT AAC TAC TCG AGA GTT GTT TTC CCA GTG ACT TTC TTC TTC TTC				4564
249	Leu Asp Asn Tyr Ser Arg Val Val Phe Pro Val Thr Phe Phe Phe Phe				
250		220	225	230	
251					
252	AAT GTG CTC TAC TGG CTT GTT TGC CTT AAC TTG TAGGTACCAG CTGGTACCCT				4617
253	Asn Val Leu Tyr Trp Leu Val Cys Leu Asn Leu				
254		235	240		
255					
256	GTGGGGCAAC CTCTCCAGTT CCCAGGAGG TCCAAGCCCC TTGCCAAGGG AGTTGGGGGA				4677
257					
258	AAGCAGCAGC AGCAGCAGGA GCGACTAGAG TTTTTCCTGC CCCATTCCCC AAACAGAAGC				4737

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/030,832

DATE: 03/12/98
TIME: 17:34:03

INPUT SET: S24125.raw

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER: To be assigned